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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0609.4350000APPLICATION NO.
08/816,122APPLICANT
BUSH *et al.*FILING DATE
March 11, 1997GROUP
1815

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAID	AR	1	Barrow, C.J., and Zagorski, M.G., "Solution Structures of β Peptide and Its Constituent Fragments: Relation to Amyloid Deposition," <i>Science</i> 253:179-182 (1991)
PAID	AS	1	Barrow, C.J., <i>et al.</i> , "Solution Conformations and Aggregational Properties of Synthetic Amyloid β -Peptides of Alzheimer's Disease," <i>J. Mol. Biol.</i> 225:1075-1093 (1992)
PAID	AT	1	Behl, C., <i>et al.</i> , "Hydrogen Peroxide Mediates Amyloid β Protein Toxicity," <i>Cell</i> 77:817-827 (1994)

EXAMINER

PATRICIA A. DUFFY

DATE CONSIDERED

16 Aug 97

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP-609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

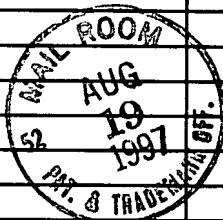
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PAD	AR	5	Gutteridge, J.M.C., and Wilkins, S., "Copper Salt-Dependent Hydroxyl Radical Formation Damage to Proteins Acting as Antioxidants," <i>Biochim. Biophys. Acta</i> 759:38-41 (1983)
PAD	AS	5	Haley, J.V., "Zinc Sulfate and Wound Healing," <i>J. Surg. Res.</i> 27(3):168-174 (1979)
PAD	AT	5	Han, J., et al., "Quantitation of Hydrogen Peroxide Using Tris(2-carboxyethyl)phosphine," <i>Anal. Biochem.</i> 234:107-109 (February 1996)

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PATRICIA A. DUNN

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PAD.	AR	2	Burdick, D., et al., "Assembly and Aggregation Properties of Synthetic Alzheimer's A4/ β Amyloid Peptide Analogs," <i>J. Biol. Chem.</i> 267(1):546-554 (1992)
PAS	AS	2	Burns, J.A., et al., "Selective Reduction of Disulfides by Tris(2-carboxyethyl)phosphine," <i>J. Org. Chem.</i> 56(8):2648-2650 (1991)
PAS	AT	2	Bush, A.I., et al., "A Novel Zinc(II) Binding Site Modulates the Function of the A4 Amyloid Protein Precursor of Alzheimer's Disease," <i>J. Biol. Chem.</i> 268(22):16109-16112 (1993)

EXAMINER

Patricia A. Duggan

DATE CONSIDERED

11: Aug 97

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PAD	AR	3	Bush, A.I., <i>et al.</i> , "Modulation of A β Adhesiveness and Secretase Site Cleavage by Zinc," <i>J. Biol. Chem.</i> 269(16):12152-12158 (1994)
PAD	AS	3	Bush, A.I., <i>et al.</i> , "Rapid Induction of Alzheimer A β Amyloid Formation by Zinc," <i>Science</i> 265:1464-1467 (1994)
PAD	AT	3	Bush, A.I., <i>et al.</i> , in: "Zinc and Alzheimer's Disease," <i>Science</i> 268:1920-1923 (1995)

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PAO	AR	4	Fraser, P.E., <i>et al.</i> , "pH-dependent structural transitions of Alzheimer amyloid peptides," <i>Biophys. J.</i> 60:1190-1201 (1991)
PAD	AS	4	Frieden, E., "Ceruloplasmin: A Multi-functional Cupro-protein of Vertebrate Plasma," in: <i>Inflammatory Diseases and Copper</i> , Sorenson, J.R.J., ed., Clifton, N.J.: Humana Press, pp.159-169 (1982)
PAO	AT	4	Giampaolo, V., "Copper and Inflammation," in: <i>Inflammatory Diseases and Copper</i> , Sorenson, J.R.J., ed., Clifton, N.J.: Humana Press, pp. 329-345 (1982)

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PAD	AR	6	Hansen, M.B., et al., "Re-examination and further development of a precise and rapid dye method for measuring cell growth/cell kill," <i>J. Immunol. Meth.</i> 119:203-210 (1989)
PAD	AS	6	Hsu, J.M., et al., "Zinc Deficiency and Incorporation of ¹⁴ C-labeled Methionine into Tissue Proteins in Rats," <i>J. Nutrition</i> 99:425-432 (1969)
PAD	AT	6	Kirshenbaum, K., and Daggett, V., "pH-Dependent Conformations of the Amyloid β (1-28) Peptide Fragment Explored Using Molecular Dynamics," <i>Biochemistry</i> 34(23):7629-7639 (1995)

EXAMINER PATRICIA A. DUFFY	DATE CONSIDERED 16 Aug 98
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PAD	AR	Z	Koh, J.Y., and Choi, D.W., "Quantitative determination of glutamate mediated cortical neuronal injury in cell culture by lactate dehydrogenase efflux assay," <i>J. Neurosci. Meth.</i> 20:83-90 (1987)
PAD	AS	Z	Landers, J.W., and Zak, B., "Determination of Serum Copper and Iron in a Single Small Sample," <i>Am. J. Clin. Pathol.</i> 29:590-592 (1958)
PAD	AT	Z	Lindeman, R.D., <i>et al.</i> , "Myocardial zinc metabolism in experimental myocardial infarction," <i>J. Lab. Clin. Med.</i> 81(2):194-204 (1973)

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PAD	AR	8	Linert, W., <i>et al.</i> , "Dopamine, 6-hydroxydopamine, iron, and dioxygen - their mutual interactions and possible implication in the development of Parkinson's disease," <i>Biochim. Biophys. Acta</i> 1316:160-168 (August 1996)
PAD	AS	8	Menkin, V., "Studies on Inflammation. X. The Cytological Picture of an Inflammatory Exudate in Relation to its Hydrogen Ion Concentration," <i>Am. J. Pathol.</i> 10(2):193-210 (1934)
PHD	AT	8	Milanino, R., <i>et al.</i> , "Copper and the Inflammatory Process," <i>Advances in Inflammation Research</i> 1:281-291 (1979)

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PAD	AR	2	Multhaup, G., <i>et al.</i> , "The Amyloid Precursor Protein of Alzheimer's Disease in the Reduction of Copper(II) to Copper(I)," <i>Science</i> 271:1406-1409 (March 1996)
PAD	AS	2	Owen, C.A., Jr., "Uptake of ⁶⁷ Cu by Ceruloplasmin <i>In Vitro</i> (38878)," <i>Proc. Soc. Exp. Biol. Med.</i> 149:681-682 (1975)
PAD	AT	2	Peters, G., and Rodgers, M.A.J., "Single-Electron Transfer from NADH Analogues to Singlet Oxygen," <i>Biochim. Biophys. Acta</i> 637:43-52 (1981)

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PAD	AR	10	Pierce, J.E.S., <i>et al.</i> , "Immunohistochemical Characterization of Alterations in the Distribution of Amyloid Precursor Proteins and β -Amyloid Peptide after Experimental Brain Injury in the Rat," <i>J. Neurosci.</i> 16(3):1083-1090 (February 1996)
PAD	AS	10	Potempa, L.A., <i>et al.</i> , "Effect of Divalent Metal Ions and pH upon the Binding Reactivity of Human Serum Amyloid P Component, a C-reactive Protein Homologue, for Zymosan," <i>J. Biol. Chem.</i> 260(22):12142-12147 (1985)
PAD	AT	10	Roberts, G.W., <i>et al.</i> , "A β 4 amyloid protein deposition in brain after head trauma," <i>Lancet</i> 338:1422-1423 (1991)

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PATRICIA A. DUNN

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<i>7AD</i>	AR	11	Roher, A.E., <i>et al.</i> , "Morphology and Toxicity of A β -(1-42) Dimer Derived from Neuritic and Vascular Amyloid Deposits of Alzheimer's Disease," <i>J. Biol. Chem.</i> 271(34):20631-20635 (August 1996)
<i>7AD</i>	AS	11	Soto, C., <i>et al.</i> , "Structural Determinants of the Alzheimer's Amyloid β -Peptide," <i>J. Neurochem.</i> 63(4):1191-1198 (1994)
<i>7AD</i>	AT	11	Terhune, M.W., and Sandstead, H.H., "Decreased RNA Polymerase Activity in Mammalian Zinc Deficiency," <i>Science</i> 177:68-69 (1972)

EXAMINER <i>PATRICIA A. DUFFY</i>	DATE CONSIDERED <i>16 Aug 91</i>
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PAD	AR	12	Treuhaft, P.S., and McCarty, D.J., "Synovial Fluid pH, Lactate, Oxygen and Carbon Dioxide Partial Pressure in Various Joint Diseases," <i>Arthritis Rheum.</i> 14(4):475-484 (1971)
PAD	AS	12	Wood, S.J., <i>et al.</i> , "Physical, Morphological and Functional Differences between pH 5.8 and 7.4 Aggregates of the Alzheimer's Amyloid Peptide A β ," <i>J. Mol. Biol.</i> 256:870-877 (March 1996)
PAD	AT	12	Yates, C.M., <i>et al.</i> , "Enzyme Activities in Relation to pH and Lactate in Postmortem Brain in Alzheimer-Type and Other Dementias," <i>J. Neurochem.</i> 55(5):1624-1630 (1990)

EXAMINER

PATRICIA A. DISNEY

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16 Aug 96

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PAD	AR	13	Zagorski, M.G., and Barrow, C.J., "NMR Studies of Amyloid β -Peptides: Proton Assignments, Secondary Structure, and Mechanism of an α -Helix \rightarrow β -Sheet Conversion for a Homologous, 28-Residue, N-Terminal Fragment," <i>Biochemistry</i> 31(24):5621-5631 (1992)
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	AR		
DAD	AS	13	Basun, H. <i>et al.</i> , "Metals and trace elements in plasma and cerebrospinal fluid in normal ageing and Alzheimer's disease," <i>J. Neural Transm. [P-D Sect.]</i> 3(4):231-258 (1991).
PM	AT	13	Busciglio, J. and B.A. Yankner, "Apoptosis and increased generation of reactive oxygen species in Down's Syndrome neurons <i>in vitro</i> ," <i>Nature</i> 378:776-779 (1995).

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	AP						Yes No

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PAP	AR	14	Bush, A.I. <i>et al.</i> , "The Amyloid β -Protein Precursor and Its Mammalian Homologues," <i>J. Biol. Chem.</i> 269(43):26618-26621 (1994).
PAD	AS	14	Fitzgerald, D.J., "Zinc and Alzheimer's Disease," <i>Science</i> 268:1920 (1995).
PAT	AT	14	Frederikse, P.H. <i>et al.</i> , "Oxidative Stress Increases Production of β -Amyloid Precursor Protein and β -Amyloid (A β) in Mammalian Lenses, and A β Has Toxic Effects on Lens Epithelial Cells," <i>J. Biol. Chem.</i> 271(17):10169-10174 (April 1996).

EXAMINER <i>PATRICIA A. DUFFY</i>	DATE CONSIDERED <i>16 Aug 98</i>
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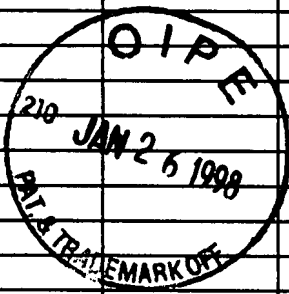
FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0609.4350000APPLICATION NO.
08/816,122APPLICANT
Bush *et al.*FILING DATE
March 11, 1997GROUP
1815

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	15	Halliwell, B. and J.M.C. Gutteridge, "Oxygen toxicity, oxygen radicals, transition metals and disease," <i>Biochem. J.</i> 219:1-14 (1984).
PAD	AS	15	Han, J.C. and G.Y. Han, "A Procedure for Quantitative Determination of Tris(2-carboxyethyl)phosphine, an Odorless Reducing Agent More Stable and Effective Than Dithiothreitol," <i>Anal. Biochem.</i> 220:5-10 (1994).
PAD	AT	15	Huang, X. <i>et al.</i> , "Zinc-induced Alzheimer's A β 1-40 Aggregation Is Mediated by Conformational Factors," <i>J. Biol. Chem.</i> 272(42):26464-26470 (October 1997).

EXAMINER

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PA-2	AR	16	Jarrett, J.T. and P.T. Lansbury, Jr., "Amyloid Fibril Formation Requires a Chemically Discriminating Nucleation Event: Studies of an Amyloidogenic Sequence from the Bacterial Protein OsmB," <i>Biochem. 31</i> :12345-12352 (1992).
PA-10	AS	16	Jarrett, J.T. <i>et al.</i> , "The Carboxy Terminus of the β Amyloid Protein Is Critical for the Seeding of Amyloid Formation: Implications for the Pathogenesis of Alzheimer's Disease," <i>Biochem. 32</i> (18):4693-4697 (1993).
PA-7	AT	16	Kuo, Y-M. <i>et al.</i> , "Water-soluble A β (N-40, N-42) Oligomers in Normal and Alzheimer Disease Brains," <i>J. Biol. Chem. 271</i> (8):4077-4081 (February 1996).

EXAMINER

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<u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		APPLICANT Bush <i>et al.</i>			
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
PAID	AR	17	Smith, M.A. <i>et al.</i> , "Radical AGEing in Alzheimer's disease," <i>Trends Neurosci.</i> 18(4):172-176 (1995).
PAID	AS	17	Teller, J.K. <i>et al.</i> , "Presence of soluble amyloid β -peptide precedes amyloid plaque formation in Down's Syndrome," <i>Nature Med.</i> 2(1):93-95 (January 1996).
PAID	AT	17	Thomas, T. <i>et al.</i> , " β -Amyloid-mediated vasoactivity and vascular endothelial damage," <i>Nature</i> 380(14):168-171 (March 1996).

EXAMINER <i>PATRICK A. DUFFY</i>	DATE CONSIDERED <i>14 Aug 98</i>
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PAL	AR	18	Tomski, S.J. and R.M. Murphy, "Kinetics of Aggregation of Synthetic β -Amyloid Peptide," <i>Arch. Biochem. Biophys.</i> 294(2):630-638 (1992).
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